

Title (en)

A VEHICLE COMPRISING A WORKING EQUIPMENT, A WORKING EQUIPMENT, AND A METHOD IN RELATION THERETO

Title (de)

FAHRZEUG MIT EINER ARBEITSAUSRÜSTUNG SOWIE EINE ARBEITSAUSRÜSTUNG UND EIN VERFAHREN IM ZUSAMMENHANG DAMIT

Title (fr)

VÉHICULE COMPRENANT UN ÉQUIPEMENT DE TRAVAIL, ÉQUIPEMENT DE TRAVAIL ET PROCÉDÉ ASSOCIÉ

Publication

**EP 3718820 A1 20201007 (EN)**

Application

**EP 20163558 A 20200317**

Priority

SE 1950427 A 20190405

Abstract (en)

A vehicle (2) comprising a working equipment (4) equipped with a movable loading arrangement (5) comprising a first attachment member (7), said vehicle further comprises a sensor system (6) configured to capture environmental data reflecting the environment around the vehicle and to determine, based on said data, image data (8) representing an area at least partly surrounding the vehicle (2). The sensor system (6) is configured to detect and track positions of the first attachment member (7) and a mating second attachment member (9) of the object (20) to load in said image data representation, and, the detected and tracked positions of the first and second attachment members (7, 9) are used to generate a first set of operation instructions for the loading arrangement (5) of the working equipment that decreases the distance between said first and second attachment members such that said attachment members (7, 9) come into position to engage to each other. The control unit 16 is configured to verify that said attachment members (7, 9) are engaged based on the detected and tracked positions from the sensor system (6), and in response to verifying that said attachment members (7, 9) are engaged, enable activation of an object loading mode in which the control system generates a second set of operation instructions for the working equipment to move the loading arrangement (5) so that the object to load is loaded on the vehicle.

IPC 8 full level

**B60P 1/54** (2006.01); **B60P 1/64** (2006.01); **B66C 13/46** (2006.01)

CPC (source: EP SE US)

**B25J 9/1694** (2013.01 - SE); **B60P 1/54** (2013.01 - EP); **B60P 1/6463** (2013.01 - EP); **B66C 13/46** (2013.01 - EP); **B66C 13/48** (2013.01 - US); **B66C 23/36** (2013.01 - SE); **G05D 1/0094** (2024.01 - US); **G05D 1/243** (2024.01 - SE); **G06V 20/56** (2022.01 - US); **B65G 69/00** (2013.01 - SE); **B66C 2700/08** (2013.01 - US)

Citation (applicant)

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Designated contracting state (EPC)

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DOCDB simple family (application)

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